OK

Depth 6	Contents 7	Reference to last Measurement 8

1st & final Bill

Recorded on 8/8/18

Work Code-005-18-000064
Est cost = 20.00 lakhs

M. A. R. 57 (Rule 116)
Measurement Book

No. B 353413

Serial No. .....
Name of Work ... Improvements to Road and Drains at Agrahara Village Ashwathkatte Off From Road in ward No. 05 Byatarayana
Name of Contractor of nature of Agency ... Pura Sub Division
Date of commencement of work ... Sri Gopireddy, Ramachandrappa Layout Bangalore-45

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Work order No: BBMP/EE/BTP/WO/65/2018-19 dt: 24/07/18.						
	(1) Earth work Excavation by manual means in Ordinary soil involving an avg. Hle throw up to 2mtr and an avg. Lift up to 0.5m excavated surface leveled and sides neatly dressed. The deposited earth to be leveled neatly after breaking of clods etc complete.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8	
	Qty is as per premeasurment of this MB page No-353475 to 353476 = 641.25 m^3 Rate Rs 80.10/m^3 = 51364.12 =						
(2)	Providing & laying in position P.C.C of mix M 1:4:8 with 40 m.m & down size graded granite metal coarse aggregate & fine aggregates ALL mixes Concrete laid in layers not exceeding 15 c.m thick well compacted in foundation & plinth including cost of all materials labour tools & machinery curing etc complete.						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Num
1	2	
	Qty is as P this MB	
(3)	providing & layi granite fully & laid in 15 c.m thick curing finishing	

OOK

Depth 6	Contents 7	Reference to last Measurement 8
easurement of this MB		
5 to 353476	= 641.25 m³	
10/m³	≡ 513641.12	
	=	
m P.C.C of mix M		
ize graded granite		
time aggregates		
layers not exceeding		
in foundation		
materials labour		
Compleate.		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353414

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Qty is as per pre measurement of this MB page No: 353477. @ Rate ₹ 4895/m³					= 87.60 m³	
						= 428802=00	
(3)	providing & laying C.C using 20mm & down size granite fully of ready mixed concrete for R.C.C work laid in 15cm thick layers & well compacted vibrating curing finishing with necessary C.M. form work						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Scaffolding to Concrete Wall	Wall stand with all leads & lifts etc complete					necessary
Near Venkateshwara – Swamy House		1	15.00	$\frac{5.00+4.90}{2.0}$	x 0.10	= 7.42	
		1	15.00	$\frac{4.90+4.20}{2.0}$	x 0.10	= 6.82	
		1	15.00	$\frac{4.20+4.80}{2.0}$	x 0.10	= 6.75	
		1	8.50	$\frac{4.80+5.10}{2.0}$	x 0.10	= 4.20	
Near Munikrishna House		1	15.00	$\frac{6.50+6.70}{2.0}$	x 0.10	= 9.90	
		1	15.00	$\frac{6.70+6.60}{2.0}$	x 0.10	= 9.97	
		1	15.00	$\frac{6.60+6.00}{2.0}$	x 0.10	= 9.45	
Near Nagesh House		1	15.00	$\frac{2.90+3.10}{2.0}$	x 0.10	= 4.50	
						59.01	

CAFE. 15/9

Serial No. .....
Name of Work .....
Name of Contractor of nature of Ag
Date of commencement of work .....

Date	Full description, etc, of wo
1	2
	23/8/18
	(4) Vacuum D mat & com
	floating Jisc

OOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
			With necessary Life-ex complete
	4.90 / 2.0	x 0.10 = 7.42	
	0+4.20 / 2.0	x 0.10 = 6.82	
	0+4.80 / 2.0	x 0.10 = 6.75	
	Pot 5.10 / 2.0	x 0.10 = 4.20	
	0+6.70 / 2.0	x 0.10 = 9.90	
	0+6.60 / 2.0	x 0.10 = 9.97	
	0+6.00 / 2.0	x 0.10 = 9.45	
	0+3.10 / 2.0	x 0.10 = 4.50	
		59.01	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 353415

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Uniform 23/8/18 CRFC 19/9/18	1.	15.00	(3.10+3.00)/2.0	x 0.10	= 4.57	
		1	15.00	(3.60+3.10)/2.0	x 0.10	= 4.57	
		1	3.40	(3.10+3.20)/2.0	x 0.10	= 1.07	
						69.22 m³	
						Qty is limited to = 58.40 m³	
						Schedule - B	
						Rate Rs 5874/m³	= 343041=60
	④ Vacuum De-watering with Vacuum pump & Suction mat & compaction with 5KW Hoster Chubbed with floating disc including cost of genarator. Hire of						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	machinery Screed vibratory power floated slate & disc etc complete						
		1	15.00	$\frac{5.00+4.90}{2.0}$		= 74.25	
		1	15.00	$\frac{4.90+4.20}{2.0}$		= 68.25	
		1	15.00	$\frac{4.20+4.80}{2.0}$		= 67.50	
		1	8.40	$\frac{4.80+5.10}{2.0}$		= 42.00	
		1	15.00	$\frac{6.50+6.70}{2.0}$		= 99.00	
		1	15.00	$\frac{6.70+6.60}{2.0}$		= 99.75	
		1	15.00	$\frac{6.60+6.00}{2.0}$		= 94.50	
		1	15.00	$\frac{2.90+3.10}{2.0}$		= 45.00	
						590.19	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
	22/8/18	
	Qty	
	(5) providing groo	
	of 5mm to 10mm	

BOOK

ons		Contents	Reference to last Measurement
eadth 5	Depth 6	7	8
ory power floated slab			
5.00+4.90 / 2.0		= 74.25	
4.90+4.20 / 2.0		= 68.25	
.20+4.80 / 2.0		= 67.50	
80+5.10 / 2.0		= 42.00	
.50+6.70 / 2.0		= 99.00	
70+6.60 / 2.0		= 99.75	
.60+6.00 / 2.0		= 94.50	
90+3.10 / 2.0		= 45.00	
		590.19	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353416

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 590.19 7	Reference to last Measurement 8
		1	15.00	3.10+3.00 / 2.0		= 45.75	
		1	15.00	3.00+3.10 / 2.0		= 45.75	
		1	3.40	3.10+3.20 / 2.0		= 10.71	
						692.46 m²	
	24/8/18						
	Qty is limited to Schedual-B Rate 489/m²					= 584.00 m²	
						= 51976=00	
(5)	providing groove cutting for concrete pavement with of 5mm to 10mm & depth 50mm-100mm including						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Cost of Cutting machine generator & Hom & machinery including cost of blade coolent etc including Cleaning of grooves & proviging fans & hot bitumen filler etc complete						
		3	$\frac{5.00+4.90}{2.0}$			= 14.85 Rmt	
		3	$\frac{4.90+4.20}{2.0}$			= 13.65 Rmt	
		3	$\frac{4.20+4.80}{2.0}$			= 13.50 Rmt	
		2	$\frac{4.80+5.10}{2}$			= 9.90 Rmt	
		3	$\frac{6.50+6.50}{2.0}$			= 19.80 Rmt	
						71.70	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
	(6) proviging laying stones Aggregate	

BOOK

ions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
enerator + Hom +			
t blade coolent etc			
ves + providing fans +			
ompleate			
0+4.90 / 2.0		= 14.85 Rmt	
0+4.20 / 2.0		= 13.65 Rmt	
0+4.80 / 2.0		= 13.50 Rmt	
0+5.10 / 2		= 9.90 Rmt	
.70+6.50 / 2.0		= 19.80 Rmt	
		71.10.	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353417

Serial No. ..... From..... To.....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 71.70.	Reference to last Measurement 8
		3 x	6.70+6.60 / 2.0			= 19.95 Rmt	
		3 x	6.60+6.00 / 2.0			= 18.90 Rmt	
		3 x	2.90+3.10 / 2.0			= 9.00 Rmt	
		3 x	3.10+3.0 / 2.0			= 9.15 Rmt	
						128.70 Rmt	
		Rate Rs 115.70/Rmt				= 14890.59	
(6)	providing laying spreading & compacting graded stones aggregate to wet mix macadam specification						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	including premixing the materials with water at OMC in mechanical mix plant carriage of mixes method of tipper to site. laying in uniform layers with paver in Sub base course on well prepared surface & compacting with vibratory roller to achive the desire density etc Compleate						
	Qty is as per premeasurment of This M.B page no 353478 = 273.83 m³						
	Rate @ 1557.50/m³ = 426490.22						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ...
Date of commencement of work .....

Date	Full description, etc, of work
1	2
(7)	providing & c 9.8 to 12.2 kg per c respectully ove porosity respe base with cut h mixes with di boiler fitted wi Qty as

OOK

Depth 6	Contents 7	Reference to last Measurement 8
terial with water plant carriage of te. laying in uniform base course on mpacting with desire density etc		
asurment of no 353478 = 273.83m³ 557.50/m³ = 426490.22		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353418

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(7)	providing & applying primer coat from 7.5 to 9.8 kg/ 9.8 to 12.5 kg per 10 sqm for surface of low & medium porosity respectully over prepared surface of low & medium porosity respectully over prepared surface of granular base with cut back M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spry set etc complete. Qty as per premeasurment of Items B page no: 353479 Rate = 53.40/m²					= 1093.02m² = 58367.26	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(8)	providing & laying Semidense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregate of Specified grading premixed with bitumen binder at 4.5 to 5% by mix & later transporting to hot mix to work site laying with a hydrostatic paver finisher with sensor controls to the required grade level & alignment, rolling with smooth wheeled, Vibratory & tandem roller to achieve the desired compaction as per MORTH Specification etc complete						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2

OK

Depth 6	Contents 7	Reference to last Measurement 8
ete bitumenous		
00-120 TPH batch		
erage output of		
rushed aggregate		
ced with bitumen		
ter transporting to		
g with a hydrostatic		
controls to the		
ment, rolling with		
tendam roller to		
ion as per MORTH		
ct		

M. A. R. 57 (Rule 116)
Measurement Book

No. B 353419

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1	30.00	$\frac{5.4+5.6}{2.0}$	×0.030	=4.95	
		1	30.00	$\frac{5.60+5.30}{2.0}$	×0.030	=4.90	
		1	30.00	$\frac{5.30+5.10}{2.0}$	×0.030	=4.68	
		1	30.00	$\frac{5.10+5.20}{2.0}$	×0.030	=4.63	
		1	30.00	$\frac{5.20+5.30}{2.0}$	×0.030	=4.72	
		1	30.00	$\frac{5.30+4.95}{2.0}$	×0.030	=4.61	
		1	29.00	$\frac{4.95+5.00}{2.0}$	×0.030	=4.32	
		1	09.00	$\frac{5.0+5.10}{2.0}$	×0.030	=1.36	
						34.17 m³	
						=21592023	

Rate Rs 6319/m³

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(9) lead for Disposal of Debris shall be payable at carage rates by Mechanical means including loading & Unloading from 0.00 to 2.00 km						
4/9/2018	Qty is as same as item 1 of the MB page 353413 & 353414					= 641.25 m^3	
	② Rate Rs. 71.20/m^3					= 45657=00	
						Total Rs = 16,36,509=	

31/8/18
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

4/9/2018
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Muniswamy House
	Venkateshwa Swamy House

Depth 6	Contents 7	Reference to last Measurement 8
		hall be payable at
		means including
		2.00 km
		as item 1
		2413 × 353414 = 641.25 m³
		0/m³ = 45657=00
		Total Rs = 16,36,509

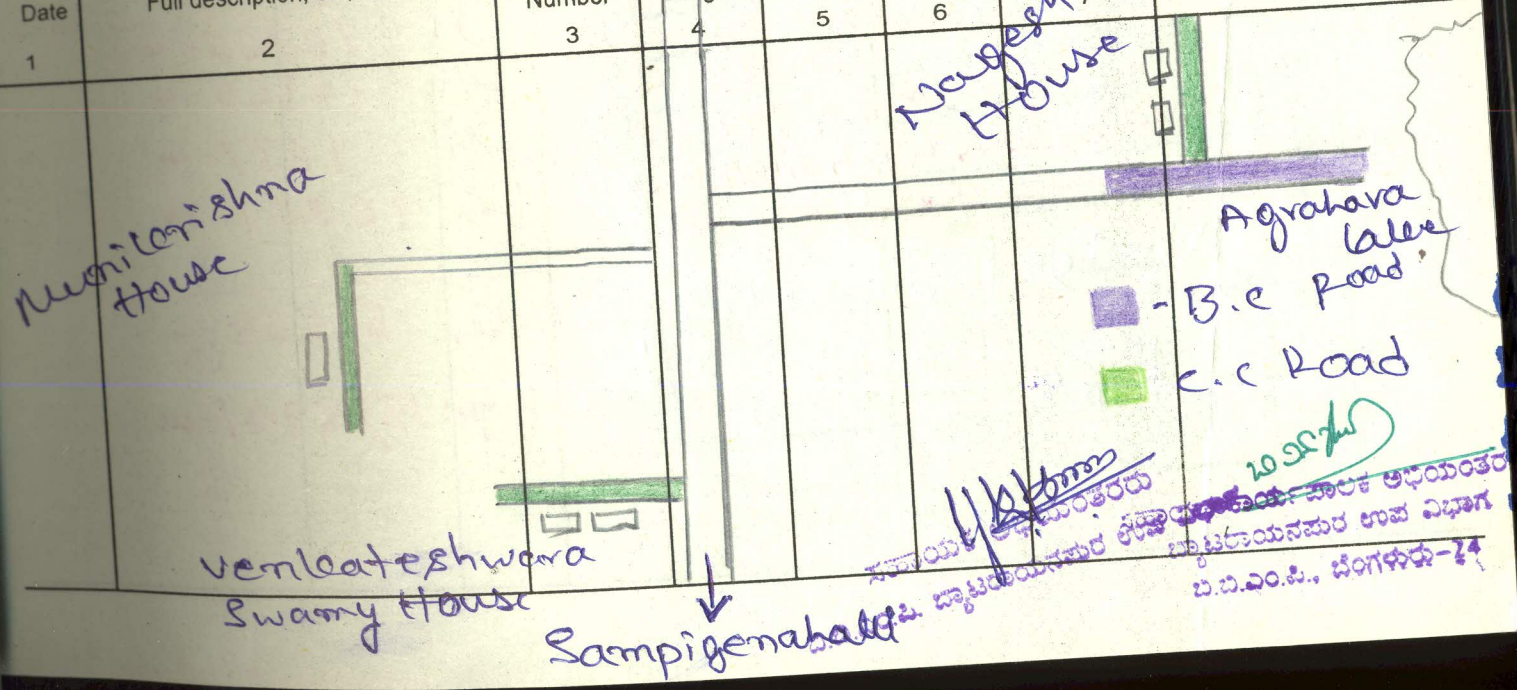
M. A. R. 57 (Rule 116)
Measurement Book

No. B 353470

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

From ..... To .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8



ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions					Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6		8

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ 16,36,509-00

ಗಳಿಗೆ ಪಾವತಿ ಮಾಡಿದೆ : ಇದರಲ್ಲಿ ರೂ 50568-00

ಪೂರ್ಣವಾಗಿ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು 15,85,941-00

Rs: Fifteen Lakh, eighty five thousand nine hundred forty one only.

ಇಂತಿ ಮುದ್ರಾಂತರ ನೀಡಲಾಗಿದೆ

Verified 15/9

ಲೆಕ್ಕಾಧೀಕ್ಷಕರು

ವ್ಯಾಪಾರಾಯುಕ್ತರ ಕಛೇರಿ

ಬೃ.ಬೆ.ಮ.ಪಾ 15/9

Calculated 15/9

ವ್ಯಾಪಾರ ಆಯುಕ್ತರ ಕಛೇರಿ

ಬೃ.ಬ.ಮ.ಪಾ

Total Rs: 16,36,509-00

JT - 16365-00

CM - 16365-00

CBF - 1637-00

LR - 16201-00

Addl. 50568-00

Cheque: 15,85,941-00.

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work
1	2